

WO200153312 Comparison

ID AAM39781 standard; Protein; 772 AA.
XX
AC AAM39781;
XX
DT 22-OCT-2001 (first entry)
XX
DE Human polypeptide SEQ ID NO 2926.
XX
KW Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
KW peripheral nervous system; neuropathy; central nervous system; CNS;
KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
KW leukaemia.
XX
OS Homo sapiens.
XX
PN WO200153312-A1.
XX
PD 26-JUL-2001.
XX
PF 26-DEC-2000; 2000WO-US34263.
XX
PR 21-JAN-2000; 2000US-0488725.
PR 25-APR-2000; 2000US-0552317.
PR 09-JUL-2000; 2000US-0598042.
PR 19-JUL-2000; 2000US-0620312.
PR 03-AUG-2000; 2000US-0653450.
PR 14-SEP-2000; 2000US-0662191.
PR 19-OCT-2000; 2000US-0693036.
PR 29-NOV-2000; 2000US-0727344.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
PI Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;
PI Zhao QA, Zhou P, Goodrich R, Drmanac RT;
XX
DR WPI; 2001-442253/47.
DR N-PSDB; AAT58937.
XX
PT Novel nucleic acids and polypeptides, useful for treating disorders
PT such as central nervous system injuries -
XX
PS Example 4; SEQ ID NO 2926; 10078pp; English.
XX
CC The invention relates to human nucleic acids (AAI57798-AAI61369) and
CC the encoded polypeptides (AAM38642-AAM42213) with nootropic,
CC immunosuppressant and cytostatic activity. The polynucleotides are useful
CC in gene therapy. A composition containing a polypeptide or polynucleotide
CC of the invention may be used to treat diseases of the peripheral nervous
CC system, such as peripheral nervous injuries, peripheral neuropathy and
CC localised neuropathies and central nervous system diseases, such as
CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
CC utilisation of the activities such as: Immune system suppression,
CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic

CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
CC assays for receptor activity, arthritis and inflammation, leukaemias and
CC C.N.S disorders.

CC Note: The sequence data for this patent did not form part of the printed
CC specification.

XX

SQ Sequence 772 AA;

Query Match 100.0%; Score 4037; DB 22; Length 772;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 772; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRLSSLLALLRPALPLILGLSLGCSLSLLRVSWIQQGEGEDPCVEAVGERGGPQNPDCSRAR 60
Db 1 mrlssllallrpalplilglsgcsllrvswiqgegedpcveavgerggpqnpdsrar 60

Qy 61 LDQSDEDFKPRIVPYRDPNPKYKKVLRTRYIQTELGSRERLLAVLTSRATLSTLAVAV 120
Db 61 ldqsdedfkprivpyrdpnkpkykkvlrtryiqtelgsrerllavltsratlstlavav 120

Qy 121 NRTVAHHFPRLLYFTGQRGARAPAGMQVVSHGDERPAWLMSETLRHLHTHFGADYDWFFI 180
Db 121 nrtvahhfprllyftgqrgarapagmqvvshgderpawlmsetlrhlhtfgadwydwffi 180

Qy 181 MQDDTYVQAPRLAALAGHLSINQDLYLGRAEEFIGAGEQARYCHGGFGYLLRSRSLLLRLR 240
Db 181 mqddtyvqaprlaalaghlsinqdlylgraeefigageqarychggfgyllrsllrlr 240

Qy 241 PHLDGCRGDILSARPDEWLGRCLIDS LGVGCVSQHQGQQYRSFELAKNRDPEKEGSSAFL 300
Db 241 phldgcrgdilsarpdewlgrclids lvgcvsqhqgqqyrsfelaknrdpekegssaf 300

Qy 301 SAFAVHPVSEGTLMYRLHKRFSALELERAYSEIEQLQAQIRNLTVLTPGEAGLSPVGL 360
Db 301 safavhpvsegtlmyrlhkrfsalelerayseieqlqaqirnltvltpegeaglspvgl 360

Qy 361 PAPFTPNSRFEVLGWDYFTEQHTFSCADGAPKCPHQGASRADVGDALETALEQLNRRYQP 420
Db 361 papftpnsrfevlgwdfteqhtfscadgapkcplqgasradvgdaletaleqlnrryqp 420

Qy 421 RLRFQKQRLLNGYRRFDARGMEYTL DLLECVTQRGHRRALARVSLLRPLSRVEILPM 480
Db 421 rlr fqkqrlngyrrfdargmeytldllcvtrghrralarvsllrplsrv eilpm 480

Qy 481 PYVTEATRVQLVLPPLLVAEAAAAPAFLEAFAANVLEPREHALL LLLVYGPREGGRGAPD 540
Db 481 pyvteatrvqlvlp llvaeaaaapafleafaanvleprehall lllvygpreggrgapd 540

Qy 541 PFLGVKAAAELERRYPGTRLAWLAVRAEAPSQVRLMDVSVSKHPVDTLFFLTTVWTRPG 600
Db 541 pflgvkaaaaelerrypgtr lawlavraeapsqvrlmdvsvskhpdvtlfllttvwtrpg 600

Qy 601 PEVLNRCRMNAISGWQAFFPVHFQEFPALSPQRSPPGPPGAGPDPPSPPGADPSRGAPI 660
Db 601 pevlnrcrmnaisgwqaffpvhfqefnpalspqrspgppgagpdppsppgadpsrgapi 660

Qy 661 GGRFDRQASAEGCFYNADYLAAARARLAGELAGQEEEEALEGLEVMDVFLRFSGLHLFRAV 720
|||||||
Db 661 ggrfdrqasaegcfynadylaararlagelagqeeeealeglevmdvflrfsglhlfrav 720

Qy 721 EPGLVQKFSLRDCSPRLSEELYHRCRLSNLEGLGGRAQLAMALFEQEQANST 772
|||||||
Db 721 epglvqkfsrlcspnlseelyhrcrlsnleglggraqlamalfeqeuanst 772

RESULT 2

AAB80269

ID AAB80269 standard; Protein; 772 AA.

XX

AC AAB80269;

XX

DT 24-APR-2001 (first entry)

XX

DE Human PRO339 protein.

XX

KW Human; PRO; dermatological; antipsoriatic; cytostatic; antiinflammatory;
KW antiparkinsonian nootropic; neuroprotective; vulnerary; cardiant;
KW antiangiogenic; vasotropic; antiasthmatic; antirheumatic; cancer;
KW antiarthritic; antiinfertility; antidiabetic; antiviral; diabetes;
KW ophthalmological; gene therapy; skin disease; gastrointestinal disorder;
KW ischaemia; inflammation.

XX

OS Homo sapiens.

XX

PN WO200104311-A1.

XX

PD 18-JAN-2001.

XX

PF 22-FEB-2000; 2000WO-US04414.

XX

PR 07-JUL-1999; 99US-0143048.
PR 26-JUL-1999; 99US-0145698.
PR 28-JUL-1999; 99US-0146222.
PR 08-SEP-1999; 99WO-US20594.
PR 13-SEP-1999; 99WO-US20944.
PR 15-SEP-1999; 99WO-US21090.
PR 15-SEP-1999; 99WO-US21547.
PR 05-OCT-1999; 99WO-US23089.
PR 29-NOV-1999; 99WO-US28214.
PR 30-NOV-1999; 99WO-US28313.
PR 16-DEC-1999; 99WO-US30095.
PR 20-DEC-1999; 99WO-US30911.
PR 20-DEC-1999; 99WO-US30999.
PR 05-JAN-2000; 99WO-US00219.

XX

PA (GETH) GENENTECH INC.

XX

PI Ashkenazi AJ, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ, Kljavin IJ;
PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI Williams PM, Wood WI;

XX

ID AAI58937 standard; cDNA; 2710 BP.
AC AAI58937;
DT 22-OCT-2001 (first entry)
DE Human polynucleotide SEQ ID NO 1140.
KW Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
KW peripheral nervous system; neuropathy; central nervous system; CNS;
KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
KW leukaemia; ss.
OS Homo sapiens.
XX
PN WO200153312-A1.
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PF 26-DEC-2000; 2000WO-US34263.
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PR 25-APR-2000; 2000US-0552317.
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PR 19-JUL-2000; 2000US-0620312.
PR 03-AUG-2000; 2000US-0653450.
PR 14-SEP-2000; 2000US-0662191.
PR 19-OCT-2000; 2000US-0693036.
PR 29-NOV-2000; 2000US-0727344.
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PA (HYSEQ-) HYSEQ INC.
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PI Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;
PI Zhao QA, Zhou P, Goodrich R, Drumanac RT;
XX
DR WPI; 2001-442253/47.
DR P-PSDB; AAM39781.
XX
PT Novel nucleic acids and polypeptides, useful for treating disorders
PT such as central nervous system injuries -
XX
PS Claim 1; SEQ ID NO 1140; 10078pp; English.
XX
CC The invention relates to human nucleic acids (AAI57798-AAI61369) and
CC the encoded polypeptides (AAM38642-AAM42213) with nootropic,
CC immunosuppressant and cytostatic activity. The polynucleotides are useful
CC in gene therapy. A composition containing a polypeptide or polynucleotide
CC of the invention may be used to treat diseases of the peripheral nervous
CC system, such as peripheral nervous injuries, peripheral neuropathy and
CC localised neuropathies and central nervous system diseases, such as
CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
CC utilisation of the activities such as: Immune system suppression,
CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
CC assays for receptor activity, arthritis and inflammation, leukaemias and
CC C.N.S disorders.
CC Note: The sequence data for this patent did not form part of the printed
CC specification.
XX
SQ Sequence 2710 BP; 506 A; 821 C; 824 G; 559 T; 0 other;

Query Match 96.5%; Score 2692; DB 22; Length 2710;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2692; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 98 gggggtagttccgacaccttacagttgaagagcaggcagaaggatgtgaagacagg 157

Db	7	gggggttagtccgacacccatcacagttgaagagcaggcagaaggagtgtgaagacagg	66
Qy	158	acaatcttcttggggatgttgtcttggaaaggccagggcctgtctgtctttggcctc	217
Db	67	acaatcttcttggggatgttgtcttggaaaggccagggcctgtctgtctttggcctc	126
Qy	218	attgaccagggttcttggttaaaactgaaaggctactactggcttgcggccatcaat	277
Db	127	attgaccagggttcttggttaaaactgaaaggctactactggcttgcggccatcaat	186
Qy	278	ccattgtatcccttgggtgtgccttggggcaccacactggcaggccataccaccatcg	337
Db	187	ccattgtatcccttgggtgtgccttggggcaccacactggcaggccataccaccatcg	246
Qy	338	actgagctcccttgggtctgtgcggccagcgctccctcatcttagggctgtctct	397
Db	247	actgagctcccttgggtctgtgcggccagcgctccctcatcttagggctgtctct	306
Qy	398	gggttgagcccttgggttcctgtgcgggttcctggatccaggggaggagaagatccctg	457
Db	307	gggttgagcccttgggttcctgtgcgggttcctggatccaggggaggagaagatccctg	366
Qy	458	tgtcgaggctgttagggagcgaggaggccacagaatccagattcgagagctcggttgc	517
Db	367	tgtcgaggctgttagggagcgaggaggccacagaatccagattcgagagctcggttgc	426
Qy	518	ccaaagtgtatgaagacttcaaaccggattgtcccctactacagggacccaacaagcc	577
Db	427	ccaaagtgtatgaagacttcaaaccggattgtcccctactacagggacccaacaagcc	486
Qy	578	ctacaagaagggtctcaggactcggtacatccagacagacagctggctccgtgagcg	637
Db	487	ctacaagaagggtctcaggactcggtacatccagacagacagctggctccgtgagcg	546
Qy	638	gttgggtgttgccttgcacccggactacactgtccactttggccgtggctgtgaaccg	697
Db	547	gttgggtgttgccttgcacccggactacactgtccactttggccgtggctgtgaaccg	606
Qy	698	tacgggtggccatcaactccctcggttactctacttcaactggcagcgccccgggc	757
Db	607	tacgggtggccatcaactccctcggttactctacttcaactggcagcgccccgggc	666
Qy	758	tccagcaggatgcagggtgttgcacggccatgtggatgagcccgccctggctatgtcaga	817
Db	667	tccagcaggatgcagggtgttgcacggccatgtggatgagcccgccctggctatgtcaga	726
Qy	818	gaccctgcgcacccatcacacacactttggggcggactacactggttcttcatcatgc	877
Db	727	gaccctgcgcacccatcacacacactttggggcggactacactggttcttcatcatgc	786
Qy	878	ggatgacacatatgtcaggccccccgcctggcagcccttgcggccacccatcgatcaa	937
Db	787	ggatgacacatatgtcaggccccccgcctggcagcccttgcggccacccatcgatcaa	846
Qy	938	ccaagacactgtactttaggcccggcagaggagttcatggcgcaggcggcaggcccggt	997
Db	847	ccaagacactgtactttaggcccggcagaggagttcatggcgcaggcggcaggcccggt	906
Qy	998	ctgtcatggggcttggctacctgttgcacggagtctctgttgcggccaca	1057
Db	907	ctgtcatggggcttggctacctgttgcacggagtctctgttgcggccaca	966
Qy	1058	tctggatggctgcggaggagacatttcagtgccgtctgacggagtggcttggacgt	1117
Db	967	tctggatggctgcggaggagacatttcagtgccgtctgacggagtggcttggacgt	1026

Qy 1118 cctcattgactctggcgctcggtgttccacagcaccaggggcagcagtatcgctc 1177
|||
Db 1027 cctcattgactctggcgctcggtgttccacagcaccaggggcagcagtatcgctc 1086

Qy 1178 atttgaactggcaaaaatagggaccctgagaaggaaggagtcggcttcgtgactgc 1237
|||
Db 1087 atttgaactggcaaaaatagggaccctgagaaggaaggagtcggcttcgtgactgc 1146

Qy 1238 cttccggcgtgcaccctgtctccgaaggtaaccctcatgtacggctccacaaacgcttcag 1297
|||
Db 1147 cttccggcgtgcaccctgtctccgaaggtaaccctcatgtacggctccacaaacgcttcag 1206

Qy 1298 cgctctggagttggagcgggottacagtaaaatagaacaactgcaggctcagatccggaa 1357
|||
Db 1207 cgctctggagttggagcgggottacagtaaaatagaacaactgcaggctcagatccggaa 1266

Qy 1358 cctgaccgtgtgacccccgaaggggaggcaggctgagctggcccttggctccctgc 1417
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Db 1267 cctgaccgtgtgacccccgaaggggaggcaggctgagctggcccttggctccctgc 1326

Qy 1418 tccttcacaccacactctcggtttgagggtgtgggtggactacttcacagagcagca 1477
|||
Db 1327 tccttcacaccacactctcggtttgagggtgtgggtggactacttcacagagcagca 1386

Qy 1478 cactttcctgtgcagatgggctccaaatgcggactacaggggcttagcagggcgga 1537
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Db 1387 cactttcctgtgcagatgggctccaaatgcggactacaggggcttagcagggcgga 1446

Qy 1538 cgtgggtatgcgttggagactgcctggagcagtcataatcgccgtatcagccccct 1597
|||
Db 1447 cgtgggtatgcgttggagactgcctggagcagtcataatcgccgtatcagccccct 1506

Qy 1598 ggcctccagaagcagcgtactgtcaacggctatggcgttcgaccacggcat 1657
|||
Db 1507 ggcctccagaagcagcgtactgtcaacggctatggcgttcgaccacggcat 1566

Qy 1658 ggagtacaccctggacactgtgttggaaatgtgtgacacacgcgtggcacccggccct 1717
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Db 1567 ggagtacaccctggacactgtgttggaaatgtgtgacacacgcgtggcacccggccct 1626

Qy 1718 ggctcgagggtcagcctgtgtggccacttgaggccgggtggaaatccatccctatgccta 1777
|||
Db 1627 ggctcgagggtcagcctgtgtggccacttgaggccgggtggaaatccatccctatgccta 1686

Qy 1778 tgcactgaggccaccccgagtcagctgggtgtgtccactcctgggtggctgaagctgtgc 1837
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Db 1687 tgcactgaggccaccccgagtcagctgggtgtgtccactcctgggtggctgaagctgtgc 1746

Qy 1838 agccccggcttcctcgagggtttgcagccaatgtccctggagccacgagaacatgcatt 1897
|||
Db 1747 agccccggcttcctcgagggtttgcagccaatgtccctggagccacgagaacatgcatt 1806

Qy 1898 gtcaccctgtgtgttccacggccacgagaagggtggccgtggagctccagaccatt 1957
|||
Db 1807 gtcaccctgtgtgttccacggccacgagaagggtggccgtggagctccagaccatt 1866

Qy 1958 tcttggggtaagggtgcagcagcggagtttagagcgcacggtaaccctggacgggtggc 2017
|||
Db 1867 tcttggggtaagggtgcagcagcggagtttagagcgcacggtaaccctggacgggtggc 1926

Qy 2018 ctggctcgctgtgtggccacggccgttccagggtgcgcactcatggacgtggctcgaa 2077
|||
Db 1927 ctggctcgctgtgtggccacggccgttccagggtgcgcactcatggacgtggctcgaa 1986

Qy 2078 gaagcaccctgtggacactcttttccattaccaccgtgtggacaaggcctggcccgaa 2137

Db	1987	gaagcaccctgtggacactcttttccattaccaccgtgtggacaaggcctggccccga	2046
Qy	2138	agtccctaaccgctgtcgcatgaatgccatctctggctggcaggccttcttcagtc	2197
Db	2047	agtccctaaccgctgtcgcatgaatgccatctctggctggcaggccttcttcagtc	2106
Qy	2198	tttccaggagttcaatctgcctgtcaccacagagatcaccccccagggccccggggc	2257
Db	2107	tttccaggagttcaatctgcctgtcaccacagagatcaccccccagggccccggggc	2166
Qy	2258	tggccctgaccccccctcccttcctgggtctgaccctccggggggctctataagggg	2317
Db	2167	tggccctgaccccccctcccttcctgggtctgaccctccggggggctctataagggg	2226
Qy	2318	gagatttacccggcaggcttcgtggagggtcttacaacgctgactacctggggc	2377
Db	2227	gagatttacccggcaggcttcgtggagggtcttacaacgctgactacctggggc	2286
Qy	2378	ccgagcccggtggcaggtgaactggcaggccaggaagaggagaagccctggagggc	2437
Db	2287	ccgagcccggtggcaggtgaactggcaggccaggaagaggagaagccctggagggc	2346
Qy	2438	ggaggtgtatggattttcctccgggttcagggctccacccctttggggcgttagacc	2497
Db	2347	ggaggtgtatggattttcctccgggttcagggctccacccctttggggcgttagacc	2406
Qy	2498	agggttgtgcagaagtctccctgcgagactgcagcccacggctcagtgaagaactct	2557
Db	2407	agggttgtgcagaagtctccctgcgagactgcagcccacggctcagtgaagaactct	2466
Qy	2558	ccaccgtgcgcctcagcaacctggagggctagggggccgtgcccagctggctatgg	2617
Db	2467	ccaccgtgcgcctcagcaacctggagggctagggggccgtgcccagctggctatgg	2526
Qy	2618	tcttttgagcaggagcaggccaatagcacttagccgcctggggccctaaccctatta	2677
Db	2527	tcttttgagcaggagcaggccaatagcacttagccgcctggggccctaaccctatta	2586
Qy	2678	cctttctttgtctgcctcagcccaggaaaggcaaggcaagatggtgacagatagaga	2737
Db	2587	cctttctttgtctgcctcagcccaggaaaggcaaggcaagatggtgacagatagaga	2646
Qy	2738	attgttgttatTTTaaatatgaaaatgttattaaacatgttttgc	2789
Db	2647	attgttgttatTTTaaatatgaaaatgttattaaacatgttttgc	2698